Weather Synopsis
2nd—6th

MN Academic Standards
supported during HNC program. More standards can be supported with pre- and post lesson activities.

Science
2.1.1.2.1 Scientific inquiry
2.3.2.2.1 Weather can be described in measurable quantities
3.1.3.4.1 Use tools to observe
4.2.1.1.1 Measure temperature
4.3.2.3.1 Water cycle
5.1.3.4.1 Use tools to gather, analyze, and interpret data
5.1.1.1.1 Scientific evidence, record keeping
5.1.1.1.2 Science is replicable
5.1.3.4.1 Use tools to gather data
6.1.3.4.1 Safe and appropriate ways to gather data

Language Arts
2.8.1.1 C, E, 2.8.3.3, 3.8.1.1 C, D, F, 3.8.3.3, 4.8.1.1 C, D, 5.8.1.1 C, D, 6.9.1.1 C, D

Math
2.2.1.1 Number patters such as skip counting
3.3.3.4 Thermometer to take temperature

Authenticity
Students collect their own weather data and compare it to HNC’s weather station data and professional weather reports/forecasts.

Goals & Objectives
This program will:
• Collect real weather data
• Interpret observations and data
• Forecast the weather based on observations and data (grades 4+)

Students will be able to:
• Accurately use a thermometer, wind gauge, compass to collect data
• Identify three main types of clouds.
• Record data as a group
• Create a weather forecast using data collected and tools used as props (grades 4+)

Activities
In the Classroom
• Create A Cloud—students learn the main ingredients of a cloud and create a cloud in the classroom.

In the Field
• Use data sheets and tools to record various weather data. Make observations and discuss what they mean.
• Water cycle—Through skits or songs, create the water cycle using vocab words like condensation, precipitation, and evaporation.
• Students compile and analyze collected data to create their own weather forecast live from Hartley Park. (grades 4+)

Bad Weather Alternative
• Water cycle—Through skits or songs, create the water cycle including vocab words like condensation, precipitation, and evaporation.
• Students will quickly go outside to get their data then go back inside for a discussion.
• Put on a play about clouds that will help students remember the three main cloud types.